COASTER HUB BRAKE.
CARE AND ADJUSTMENT.

1. INTRODUCTION.

1.1 Two makes of coaster hub are covered by this E.I.; they are the B.S.A. "New Eadie" and the Perry "Two Star" and are basically of the same design.

1.2 To obtain a long life the hub must be lubricated regularly and sparingly. From time to time the bearing clearance may need adjustment to compensate for wear, as described in paragraph 2. The braking mechanism cannot be adjusted; when a coaster hub is faulty it is usually necessary to replace parts but sometimes cleaning will restore its effectiveness.

2. WHEN TO ADJUST THE BEARINGS.

2.1 If there is more than 1/32" play at the wheel rim the wheel bearings must be adjusted. (Play is a small and definite rocking movement which can be felt. Also it can usually be heard. To detect play lift the bicycle so that the wheel is off the ground; then hold the wheel rim with a finger and thumb and attempt to rock it sideways.)

2.2 The adjustment is correct when there is a barely perceptible amount of play and yet when spun by hand -

(i) The wheel spins freely while the pedals are held still; and
(ii) The wheel stops instantly when the pedals are pushed backwards.

3. HOW TO ADJUST THE BEARINGS. (See Fig. 1)

3.1 Slacken the axle nuts which hold the hub to the fork and also slacken the locking nut. Do not disturb the brake arm. The parts are shown on the drawing.

3.2 Adjust the bearing clearance by turning the axle by means of a spanner on the end. Screw inwards to tighten the adjustment.

3.3 A tight adjustment is as damaging to the hub as a loose one. Check the correctness of adjustment as described in paragraph 2.2.

3.4 When the adjustment is correct hold the axle to prevent it from turning and tighten the locknut.

3.5 Then tighten the axle nuts to fix the wheel squarely in the frame.

3.6 Finally check the adjustment again as described in paragraph 2.2 to verify that it has not been accidentally disturbed.

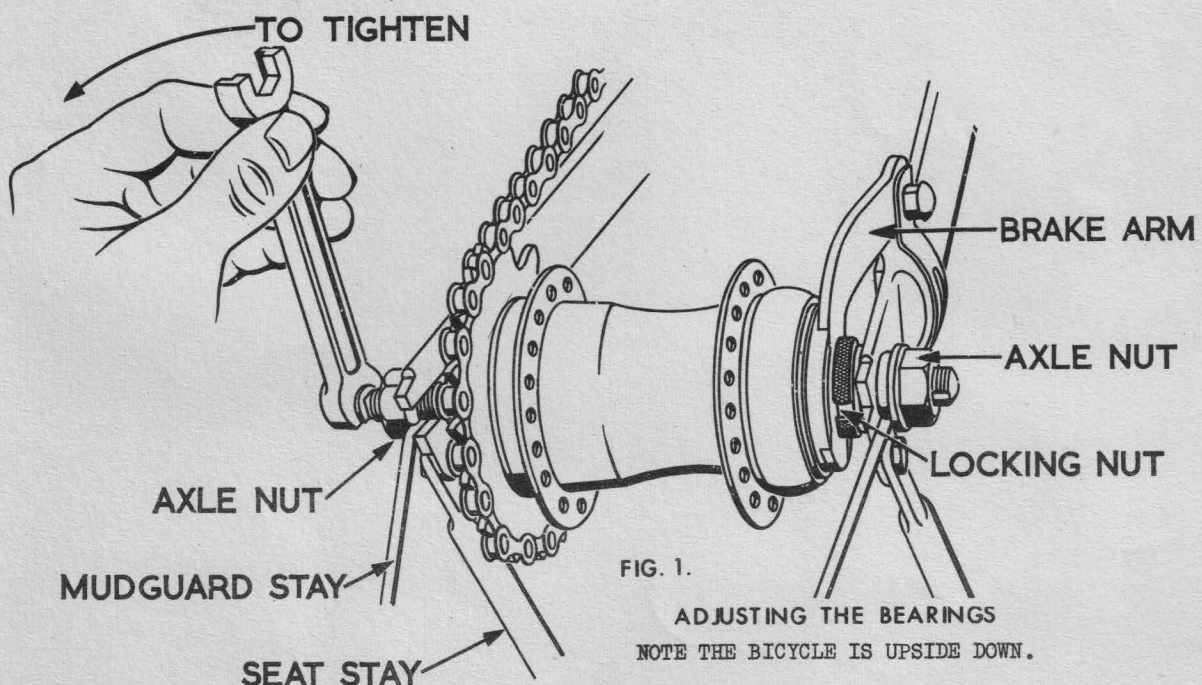

FIG. 1.
ADJUSTING THE BEARINGS
NOTE THE BICYCLE IS UPSIDE DOWN.

 END.